

## 6202.0 - Labour Force, Australia, Aug 2012

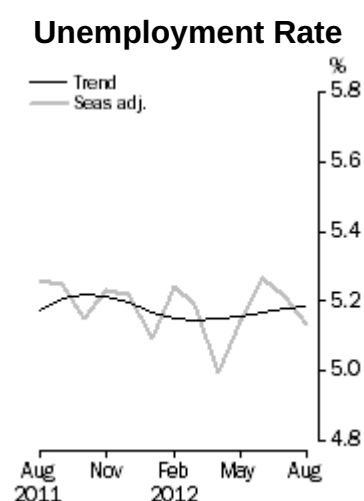
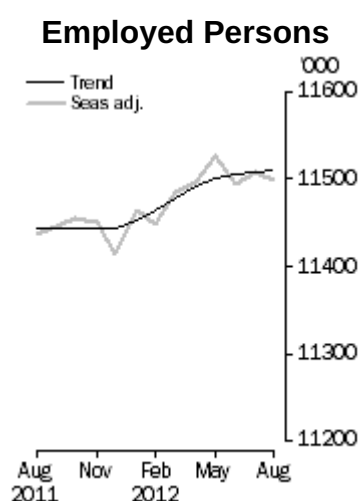
Previous ISSUE Released at 11:30 AM (CANBERRA TIME) 06/09/2012

## Summary

### Main Features

#### AUGUST KEY FIGURES

	Jul 2012	Aug 2012	Jul 12 to Aug 12	Aug 11 to Aug 12
<b>Trend</b>				
Employed persons ('000)	11 507.9	11 509.1	1.2	0.6%
Unemployed persons ('000)	628.8	629.1	0.3	0.8%
Unemployment rate (%)	5.2	5.2	0.0pts	0.0pts
Participation rate (%)	65.2	65.2	0.0pts	-0.4pts
<b>Seasonally Adjusted</b>				
Employed persons ('000)	11 506.9	11 498.1	-8.8	0.5%
Unemployed persons ('000)	633.2	622.6	-10.6	-2.0%
Unemployment rate (%)	5.2	5.1	-0.1pts	-0.1pts
Participation rate (%)	65.2	65.0	-0.2pts	-0.6pts



#### AUGUST KEY POINTS

#### TREND ESTIMATES (MONTHLY CHANGE)

- Employment increased to 11,509,100 from a revised July 2012 estimate.
- Unemployment increased to 629,100 from a revised July 2012 estimate.
- Unemployment rate steady at 5.2%.

- Participation rate steady at 65.2% from a revised July 2012 estimate.
- Aggregate monthly hours worked decreased to 1,619.5 million hours.

## **SEASONALLY ADJUSTED ESTIMATES (MONTHLY CHANGE)**

- Employment decreased 8,800 (0.1%) to 11,498,100. Full-time employment increased 600 to 8,071,400 and part-time employment decreased 9,300 to 3,426,700.
- Unemployment decreased 10,600 (1.7%) to 622,600. The number of persons looking for full-time work increased 12,800 to 469,400 and the number of persons looking for part-time work decreased 23,400 to 153,200.
- The unemployment rate decreased 0.1 pts to 5.1%. The male unemployment rate increased 0.1 pts to 5.2% and the female unemployment rate decreased 0.2 pts to 5.0%.
- The participation rate decreased 0.2 pts to 65.0%.
- Aggregate monthly hours worked decreased 5.7 million hours to 1,618.8 million hours.

## **LABOUR UNDERUTILISATION (QUARTERLY CHANGE)**

- Trend estimates: The labour force underutilisation rate decreased 0.1 pts to 12.5%.
- Seasonally adjusted estimates: The labour force underutilisation rate decreased 0.2 pts to 12.4%. The male labour force underutilisation rate increased 0.2 pts to 10.6%. The female labour force underutilisation rate decreased 0.6 pts to 14.6%.

## **NOTES**

### **FORTHCOMING ISSUES**

<b>ISSUE</b>	<b>Release Date</b>
September 2012	11 October 2012
October 2012	8 November 2012
November 2012	6 December 2012
December 2012	17 January 2013
January 2013	7 February 2013
February 2013	14 March 2013

### **REBENCHMARKING OF LABOUR FORCE SERIES**

In order to better reflect recent trends in population growth, the ABS will rebenchmark Labour Force estimates in the November 2012 issue, scheduled for release on Thursday 6 December 2012. The rebenchmarking will align the Labour Force population benchmarks with the latest available information on population growth (based on estimated resident population), but would maintain the 2006 Census base for the population benchmarks.

In mid 2013, the ABS will rebenchmark the Labour Force estimates following the release of the final 2011 Census-based resident population estimates. The current 2011 Census-based population estimates are preliminary and subject to revision.

## ROUNDING

Estimates of monthly change shown on the front cover have been calculated using unrounded estimates, and may be different from, but are more accurate than, movements obtained from the rounded estimates. The graphs on the front cover also depict unrounded estimates.

## SAMPLING ERROR

The estimates in this publication are based on a sample survey. Published estimates and the movements derived from them are subject to sampling variability. Standard errors give a measure of sampling variability (see pages 34 and 35 in the Publication on the Downloads tab). The interval bounded by two standard errors is the 95% confidence interval, which provides a way of looking at the variability inherent in estimates. There is a 95% chance that the true value of the estimate lies within that interval.

### MOVEMENTS IN SEASONALLY ADJUSTED SERIES BETWEEN JULY 2012 AND AUGUST 2012

	Monthly change	95% Confidence interval		
Total Employment	-8 800	-63 600	to	46 000
Total Unemployment	-10 600	-41 400	to	20 200
Unemployment rate	-0.1 pts	-0.3 pts	to	0.1 pts
Participation rate	-0.2 pts	-0.6 pts	to	0.2 pts

## INQUIRIES

For further information about these and related statistics, contact the National Information and Referral Service on 1300 135 070, email [client.services@abs.gov.au](mailto:client.services@abs.gov.au) or Labour Force on Canberra (02) 6252 6525, email [labourforce@abs.gov.au](mailto:labourforce@abs.gov.au).

## Employed Persons,Trend Estimates

### EMPLOYED PERSONS TREND ESTIMATES

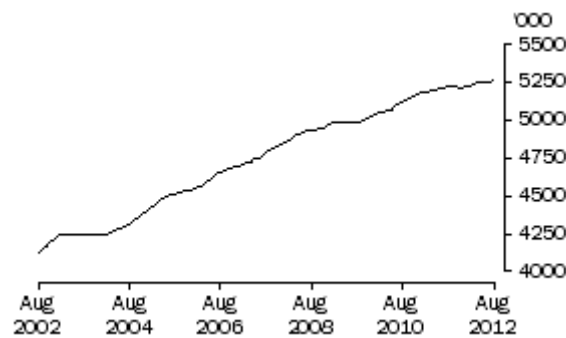
#### MALES

The trend estimate of employed males generally rose from 5,155,800 in August 2002 to 5,981,100 in September 2008. The trend then fell to 5,930,200 in April 2009, before rising to 6,247,100 in January 2011. The trend then fell to 6,222,400 in August 2011 before generally rising to 6,249,800 in August 2012.



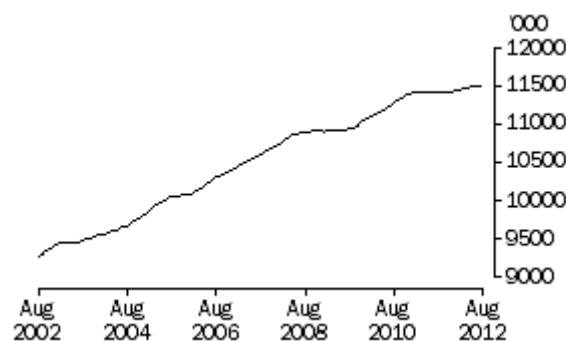
## FEMALES

The trend estimate of employed females rose from 4,129,200 in August 2002 to 4,246,300 in April 2003, before generally falling to 4,240,700 in November 2003. The trend then generally rose to 5,259,300 in August 2012.



## PERSONS

The trend estimate of employed persons rose from 9,285,000 in August 2002 to 9,464,400 in March 2003. The trend then fell to 9,456,100 in May 2003 before generally rising to 11,509,100 in August 2012.

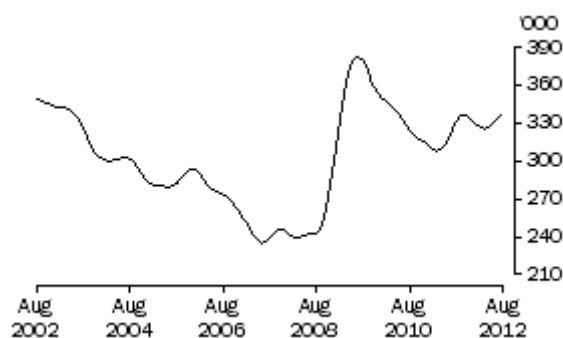


## Unemployed Persons,Trend Estimates

### UNEMPLOYED PERSONS TREND ESTIMATES

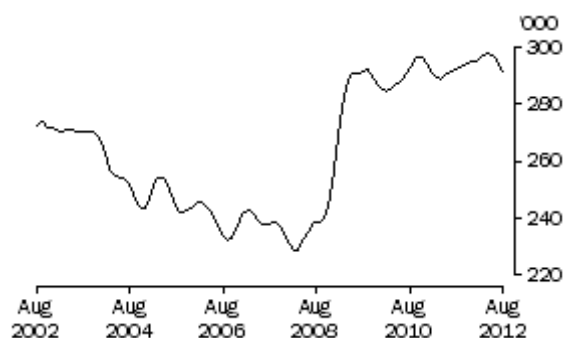
## MALES

The trend estimate of unemployed males generally fell from 349,500 in August 2002 to 235,600 in June 2007. The trend then rose to 382,900 in June 2009, before falling to 307,400 in March 2011. The trend then rose to 337,800 in August 2012.



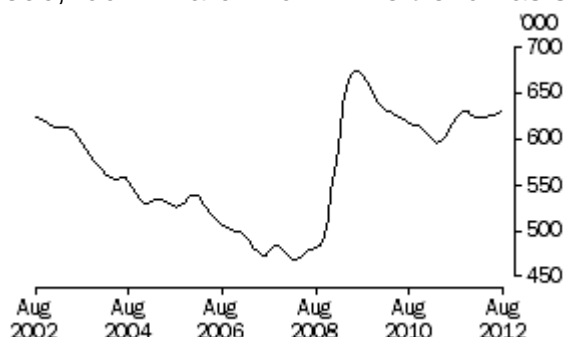
## FEMALES

The trend estimate of unemployed females generally fell from 273,000 in August 2002 to 228,900 in February 2008. The trend then rose to 292,000 in September 2009, before falling to 284,500 in February 2010. The trend has since risen to 297,700 in April 2012 before falling to 291,300 in August 2012.



## PERSONS

The trend estimate of unemployed persons generally fell from 622,500 in August 2002 to 468,300 in March 2008. The trend then rose to 673,900 in June 2009 before falling to 596,700 in March 2011. The trend has since generally risen to 629,100 in August 2012.

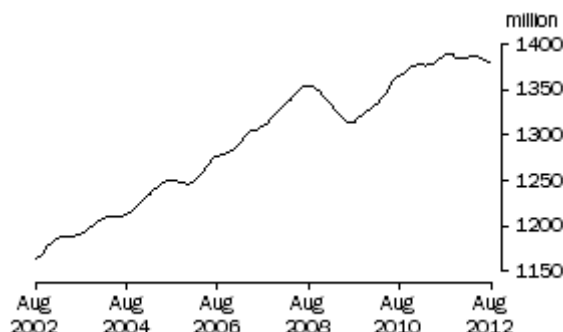


## Aggregate Monthly Hours Worked, Trend Estimates

### AGGREGATE MONTHLY HOURS WORKED TREND ESTIMATES

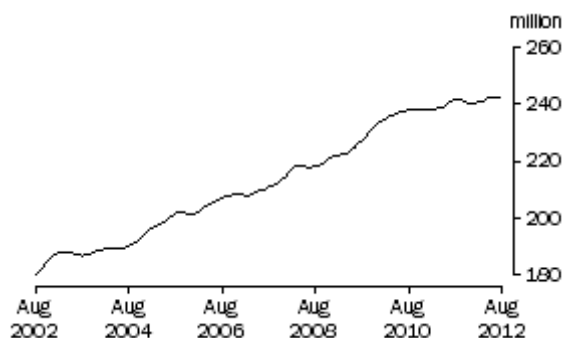
## FULL TIME

The trend estimate of aggregate monthly hours worked by full time workers generally rose from 1,165 million hours in August 2002 to 1,354 million hours in August 2008. The trend then fell to 1,314 million hours in July 2009, before rising to 1,389 million hours in September 2011. The trend has since generally fallen to 1,378 million hours in August 2012.



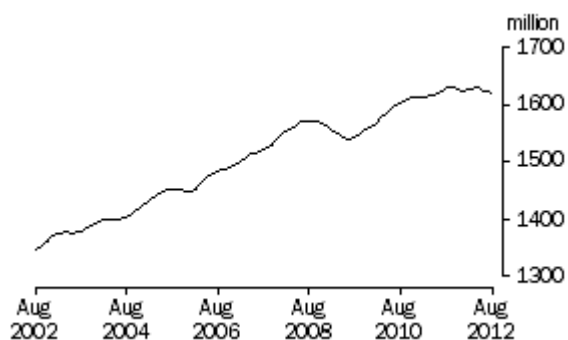
## PART TIME

The trend estimate of aggregate monthly hours worked by part time workers rose from 180 million hours in August 2002 to 188 million hours in March 2003. The trend then fell to 187 million hours in August 2003 before generally rising to 242 million hours in August 2012.



## TOTAL

The trend estimates of total aggregate monthly hours worked generally rose from 1,345 million hours in August 2002 to 1,573 million hours in August 2008 before falling to 1,540 million hours in June 2009. The trend has since risen to 1,620 million hours in August 2012.



## About this Release

Summary results of the monthly Labour Force Survey containing estimates of employed and unemployed persons classified by sex, full-time/part-time status, states and territories and some age groups; and persons not in the labour force.

## Labour Force, Australia (Media Release)

### MEDIA RELEASE

6 September 2012

Embargo: 11.30 am (Canberra time)

138/2012

### **Australia's unemployment rate decreased 0.1 percentage points to 5.1 per cent in August 2012**

Australia's seasonally adjusted unemployment rate decreased 0.1 percentage point to 5.1 per cent in August, as announced by the Australian Bureau of Statistics (ABS) today.

The ABS reported the number of people employed decreased by 8,800 to 11,498,100 in August. The decrease in employment was driven by decreased part-time employment, down 9,300 people to 3,426,700. Male part-time employment was down 8,400 people. Full-time employment increased by 600 people to 8,071,400.

The number of people unemployed decreased by 10,600 people to 622,600 in August, the ABS reported.

The ABS monthly aggregate hours worked series showed a decrease in August, down 5.7 million hours to 1,618.8 million hours.

The ABS reported a seasonally adjusted labour force participation rate decrease of 0.2 percentage points to 65.0 per cent in August.

The seasonally adjusted underemployment rate was 7.2 per cent in August 2012. Combined with the unemployment rate of 5.1 per cent, the latest estimate of total seasonally adjusted labour force underutilisation was 12.4 per cent in August.

More details are in the August 2012 issue of *Labour Force, Australia* (cat. no. 6202.0), as well as the upcoming August 2012 issues of *Labour Force, Australia, Detailed* (cat. no. 6291.0.55.001) and *Labour Force, Australia, Quarterly* (cat. no. 6291.0.55.003), which are both due for release next week on September 13. These publications are available for free download (after release) from the ABS website - [www.abs.gov.au](http://www.abs.gov.au).

#### **Media note:**

When reporting ABS data, the Australian Bureau of Statistics (or ABS) must be attributed as the source.

## Explanatory Notes

# Explanatory Notes

## EXPLANATORY NOTES

### INTRODUCTION

**1** This publication contains estimates of the civilian labour force derived from the Labour Force Survey component of the Monthly Population Survey. The full time series for estimates from this publication are also available electronically. More detailed estimates are released one week after this publication in various electronic formats - see **Labour Force, Australia, Detailed - Electronic Delivery** (cat. no. 6291.0.55.001) and **Labour Force, Australia, Detailed, Quarterly** (cat. no. 6291.0.55.003).

### CONCEPTS, SOURCES AND METHODS

**2** The conceptual framework used in Australia's Labour Force Survey aligns closely with the standards and guidelines set out in Resolutions of International Conferences of Labour Statisticians. Descriptions of the underlying concepts and structure of Australia's labour force statistics, and the sources and methods used in compiling the estimates, are presented in **Labour Statistics: Concepts, Sources and Methods** (cat. no. 6102.0.55.001) which is available on the ABS website <<https://www.abs.gov.au>>.

### LABOUR FORCE SURVEY

**3** The Labour Force Survey is based on a multi-stage area sample of private dwellings (currently approximately 29,000 houses, flats, etc.) and a list sample of non-private dwellings (hotels, motels, etc.), and covers approximately 0.33% of the civilian population of Australia aged 15 years and over.

**4** Information is obtained from the occupants of selected dwellings by specially trained interviewers using computer-assisted interviewing.

**5** Households selected for the Labour Force Survey are interviewed each month for eight months, with one-eighth of the sample being replaced each month. The first interview is conducted face-to-face. Subsequent interviews are conducted by telephone (if acceptable to the respondent).

**6** The interviews are generally conducted during the two weeks beginning on the Sunday between the 5th and 11th of each month. The information obtained relates to the week before the interview (i.e. the reference week). Each year, to deal with operational difficulties involved with collecting and processing the Labour Force Survey around the Christmas and New Year holiday period, interviews for December start four weeks after November interviews start, and January interviews start five weeks after December interviews start. As a result, January interviewing may commence as early as the 7th or as late as the 13th, depending on the year. Occasionally, circumstances that present significant operational difficulties for survey collection can result in a change to the normal pattern for the start of interviewing.

**7** Estimates from the Labour Force Survey are usually published first in this publication 32 days after the commencement of interviews for that month, with the exception of estimates for each December which are usually published 39 days after the commencement of



interviews.

## SCOPE OF SURVEY

**8** The Labour Force Survey includes all persons aged 15 years and over except members of the permanent defence forces, certain diplomatic personnel of overseas governments customarily excluded from census and estimated population counts, overseas residents in Australia, and members of non-Australian defence forces (and their dependants) stationed in Australia.

## COVERAGE

**9** In the Labour Force Survey, coverage rules are applied which aim to ensure that each person is associated with only one dwelling, and hence has only one chance of selection. The coverage rules are necessarily a balance between theoretical and operational considerations. Nevertheless, the chance of a person being enumerated at two separate dwellings in the survey is considered to be negligible.

## POPULATION BENCHMARKS

**10** The Labour Force Survey estimates are calculated in such a way as to add up to independent estimates of the civilian population aged 15 years and over (population benchmarks). These population benchmarks are projections of the most recently released quarterly Estimated Resident Population (ERP) data. For information on the methodology used to produce the ERP see **Australian Demographic Statistics** (cat. no. 3101.0). To create the population benchmarks for the Labour Force Survey, the most recently released quarterly ERP estimates are projected forward one quarter past the period for which they are required. The projection is based on the historical pattern of each population component - births, deaths, interstate migration and net overseas migration (NOM). By projecting one quarter past that needed for the current population benchmarks, demographic changes are smoothed in, thereby making them less noticeable in the population benchmarks.

**11** Commencing March 2010, the ERP series is revised twice-yearly in the March and September quarter issues of **Australian Demographic Statistics** (cat. no. 3101.0). This biannual revision cycle incorporates more up to date information available for NOM. The revised ERP estimates are used to update the quarterly population projections used in creating the Labour Force Survey population benchmarks.

**12** Every five years, the ERP series are revised to incorporate additional information available from the latest Census of Population and Housing (Census). Following the incorporation of census information, the ERP series prior to the latest census are final and subject to no further revision. Labour Force Survey population benchmarks, and the estimates, are revised following this 5-yearly revision in the ERP. From the February 2009 issue of this publication, labour force estimates have been compiled using population benchmarks based on the results of the 2006 Census. Revisions were made in the February 2009 issue to historical labour force estimates from June 2001 to January 2009.

**13** As noted, Labour Force Survey population benchmarks are derived from ABS' ERP series. In the past, ABS has revised the Labour Force Survey population benchmarks every five years in order to incorporate additional information from the latest Census. However, in the July 2010 issue of this publication the Labour Force Survey population benchmarks were revised back to July 2006 to accommodate earlier revisions to ERP.

**14** From October 2010 onwards, the net overseas migration component of the Labour Force Survey population benchmarks has been derived using assumptions that take into account a range of available supplementary data sources and relevant information to forecast population changes in the short-term. See the articles in **Labour Force, Australia** (cat. no. 6202.0) titled: **Population Benchmarks and Labour Force Survey** in the April 2012 issue; and **Changes in this issue** in the October 2010 issue. In the future, the ABS may occasionally rebenchmark and revise Labour Force Survey estimates to take account of changes in ERP as additional information becomes available. Where revisions are undertaken, these will be communicated in this publication.

## ESTIMATION METHOD

**15** The estimation method used in the Labour Force Survey is Composite Estimation, which was introduced in May 2007. Composite Estimation combines data collected in the previous six months with current month's data to produce the current month's estimates, thereby exploiting the high correlation between overlapping samples across months in the Labour Force Survey. The Composite Estimator combines the previous and current month's data by applying different factors according to length of time in the survey. After these factors are applied, the seven months of data are weighted to align with current month population benchmarks. For details see **Information Paper: Forthcoming Changes to Labour Force Statistics, 2007** (cat. no. 6292.0).

## COMPARABILITY OF SERIES

**16** From April 1986, the definition of employed persons was changed to include persons who worked without pay between 1 and 14 hours per week in a family business or on a farm (i.e. contributing family workers). For further information, see paragraphs 22 and 23 of the Explanatory Notes in the February 2003 issue of **Labour Force, Australia** (cat. no. 6203.0).

**17** The ABS introduced telephone interviewing into the Labour Force Survey in August 1996. Implementation was phased in for each new sample group from August 1996 to February 1997. During the period of implementation, the new method produced different estimates than would have been obtained under the old methodology. The effect dissipated over the final months of implementation and was no longer discernible from February 1997. The estimates for February 1997 and onwards are directly comparable to estimates for periods prior to August 1996. For further details, see the feature article in the June 1997 issue of **Labour Force, Australia** (cat. no. 6203.0).

**18** From April 2001 the Labour Force Survey has been conducted using a redesigned questionnaire containing additional data items and some minor definitional changes. The definition of unemployed persons was changed to include all persons who were waiting to start work and were available to start in the reference week. This change was introduced in February 2004, when historical unit record data were revised from April 2001 to January 2004. This revision created a small trend break at April 2001 in unemployed persons and unemployment rate series. For further details, see **Information Paper: Forthcoming Changes to Labour Force Statistics** (cat. no. 6292.0), released in December 2003.

**19** Core labour force series were revised in April 2001 for the period April 1986 to March 2001 for the remaining definitional changes introduced with the redesigned questionnaire, to reduce the impact of the changes on labour force series. For further details, see **Information Paper: Implementing the Redesigned Labour Force Survey Questionnaire** (cat. no. 6295.0) and **Information Paper: Questionnaires Used in the Labour Force**

**Survey** (cat. no. 6232.0).

**20** In May 2007, an improved method of estimation, known as composite estimation, was introduced into the Labour Force Survey. In introducing this change, the ABS revised unit record data from April 2001 to April 2007 based on the new estimation method. While estimates for periods prior to April 2001 are unrevised and were compiled using a different estimation method, no trend break was identified in the employed persons series. Also, no change was identified in the trend breaks in the unemployed persons and unemployment rate series which arose with the introduction of a redesigned survey form in April 2001 (as noted above in paragraph 18). For further details, see **Information Paper: Forthcoming Changes to Labour Force Statistics, 2007** (cat. no. 6292.0).

## **LABOUR FORCE SURVEY SAMPLE**

**21** The current Labour Force Survey sample has been selected using information collected in the 2006 Census of Population and Housing.

**22** The majority of this sample was phased in over the period November 2007 to June 2008, with one-eighth of this portion of the sample being introduced every month. Such a pattern of implementation means that any changes to labour force estimates due to differences between the two samples, or any other influences, were spread over the eight months. The remainder of the sample (about 20% of the total), which covers less settled areas and non-private dwellings was rotated in full for New South Wales, Western Australia, Northern Territory and Australian Capital Territory in March 2008, and for Victoria, Queensland, South Australia and Tasmania in April 2008.

**23** As one of a range of ABS savings initiatives for the 2008-09 financial year, there was a 24% reduction in the LFS sample size for the period July 2008 to August 2009, relative to the June 2008 sample size. The sample reduction was reversed from September 2009 to December 2009, with December 2009 estimates being the first produced under the fully reinstated sample.

**24** For further details, see **Information Paper: Labour Force Survey Sample Design** (cat. no. 6269.0).

## **RELIABILITY OF ESTIMATES**

**25** Two types of error are possible in an estimate based on a sample survey: sampling error and non-sampling error.

**26** Sampling error occurs because a sample, rather than the entire population, is surveyed. One measure of the likely difference resulting from not including all dwellings in the survey is given by the standard error. There are about two chances in three that a sample estimate will differ by less than one standard error from the figure that would have been obtained if all dwellings had been included in the survey, and about nineteen chances in twenty that the difference will be less than two standard errors. Standard errors of key estimates for the latest month and of movements since the previous month of these estimates are shown in the standard errors section of this publication. Standard errors for other estimates and other movements may be calculated by using the spreadsheet contained in **Labour Force Survey Standard Errors, Data Cube** (cat. no. 6298.0.55.001) which is available free of charge on the ABS website <<https://www.abs.gov.au>>.

**27** Non-sampling error arises from inaccuracies in collecting, recording and processing the

data. Every effort is made to minimise reporting error by the careful design of questionnaires, intensive training and supervision of interviewers, and efficient data processing procedures. Non-sampling error also arises because information cannot be obtained from all persons selected in the survey. The Labour Force Survey receives a high level of co-operation from individuals in selected dwellings, with the average response rate over the last year being 96%. See Glossary for definition of response rate.

## SEASONAL ADJUSTMENT AND TREND ESTIMATION

**28** Seasonal adjustment is a means of removing the estimated effects of normal seasonal variation from the series so that the effects of other influences on the series can be more clearly recognised. Seasonal adjustment does not aim to remove the irregular or non-seasonal influences which may be present in any particular month. This means that month-to-month movements of the seasonally adjusted estimates may not be reliable indicators of trend behaviour.

**29** The Labour Force Survey uses the concurrent seasonal adjustment method to derive seasonal factors. Concurrent seasonal adjustment uses data up to the current month to estimate seasonal factors for the current and all previous months. This process can result in revisions each month to estimates for earlier periods. However, in most instances, the only noticeable revisions will be to the seasonally adjusted estimates for the previous month and one year prior to the current month.

**30** The revision properties of the seasonally adjusted and trend estimates can be improved by the use of Autoregressive Integrated Moving Average (ARIMA) modelling. ARIMA modelling relies on the characteristics of the series being analysed to project future period data. The projected values are temporary, intermediate values, that are only used internally to improve the estimation of the seasonal factors. The projected data do not affect the original estimates and are discarded at the end of the seasonal adjustment process. The Labour Force Survey uses an ARIMA model for 95% of the individual time series. The ARIMA model is assessed as part of the annual reanalysis. For further details, see the feature article in the October 2004 issue of **Australian Economic Indicators** (cat. no. 1350.0).

**31** Seasonal adjustment is able to remove the effect of events which occur at the same time in the survey every year. However, there are some events, like holidays, which are not always at the same time in the survey cycle or which are not at the same time across Australia. The effects of these types of events on Labour Force Survey estimates cannot in all cases be removed, because the pattern of their effects cannot be determined. However, two events for which adjustment is made in the seasonally adjusted series are the January interview start date and the timing of Easter. For further details, see **Information Paper: Forthcoming Changes to Labour Force Statistics** (cat. no. 6292.0) released in December 2003.

**32** While seasonal factors for the complete time series are estimated each month, they will continue to be reviewed annually at a more detailed level to take into account each additional year's original data. This annual review will not normally result in significant changes to published estimates. The review is usually conducted in February each year with the results released in the February issue of this publication.

**33** The smoothing of seasonally adjusted series to produce 'trend' series reduces the impact of the irregular component of the seasonally adjusted series. These trend estimates are derived by applying a 13-term Henderson-weighted moving average to all months except the last six. The last six monthly trend estimates are obtained by applying surrogates of the

Henderson average to the seasonally adjusted series. Trend estimates are used to analyse the underlying behaviour of a series over time.

**34** While this smoothing technique enables estimates to be produced for the latest month, it does result in revisions in addition to those caused by the revision of seasonally adjusted estimates. Generally, revisions due to the use of surrogates of the Henderson average become smaller, and after three months have a negligible impact on the series.

**35** Trend estimates are published for the Northern Territory in table 10 and for the Australian Capital Territory in table 11. Unadjusted series for the two Territories have shown, historically, a high degree of variability, which can lead to considerable revisions to the seasonally adjusted estimates each month when seasonal factors are estimated. For this reason, seasonally adjusted estimates are not currently published for the two Territories. In addition, caution should be exercised in the interpretation of trend estimates for the two Territories, particularly for the three most recent months, where revisions may be relatively large.

**36** For further information, see **A Guide to Interpreting Time Series - Monitoring Trends** (cat. no. 1349.0) or contact the Assistant Director, Time Series Analysis on (02) 6252 6345 or email [time.series.analysis@abs.gov.au](mailto:time.series.analysis@abs.gov.au).

## RELATED PUBLICATIONS

**37** Users may also wish to refer to the following publications:

- **Labour Force Survey Standard Products and Data Item Guide** (cat.no. 6103.0). This publication is a reference guide for users of Labour Force Survey data standard products.
- **Australian Labour Market Statistics** (cat. no. 6105.0). This publication presents key indicators of the labour market, articles on a range of labour market issues, and information about the latest developments in the labour statistics program. For further information about this publication, please contact Labour Market Statistics on (02) 6252 7206.

**38** ABS Information about the labour market can be found on the Topics @ a Glance page on the ABS website <<https://www.abs.gov.au>>.

**39** Information about current publications and other products released by the ABS is available from the statistics page on the ABS website. The ABS also issues a daily release advice on the website, Upcoming Product Releases, which details products to be released in the week ahead.

## DATA AVAILABLE ON REQUEST

**40** As well as the statistics included in this and related publications, the ABS may have other relevant data available. Inquiries should be made to the Labour Force contact officer on (02) 6252 6525, email [labourforce@abs.gov.au](mailto:labourforce@abs.gov.au) or to any ABS office.

## EFFECTS OF ROUNDING

**41** Estimates have been rounded and discrepancies may occur between sums of the

component items and totals. Estimates of movement shown in this publication are obtained by taking the difference of unrounded estimates. The movement estimate is then rounded. Where a discrepancy occurs between the reported movement and the difference of the rounded estimates, the reported movement will be more accurate.

## SYMBOLS AND ABBREVIATIONS

### 42 SYMBOLS AND ABBREVIATIONS

Symbol	Definition
'000	thousands
%	percentage
ABS	Australian Bureau of Statistics
CAI	computer assisted interviewing
cat. no.	catalogue number
ERP	estimated resident population
f/t	full time
LFS	Labour Force Survey
p/t	part time
pts	percentage points
Seas adj.	seasonally adjusted
TAFE	Technical and Further Education

## Glossary

### GLOSSARY

#### Actively looking for work

Includes writing, telephoning or applying to an employer for work; answering an advertisement for a job; checking noticeboards; being registered with Centrelink as a jobseeker; checking or registering with any other employment agency; advertising or tendering for work; and contacting friends or relatives.

#### Actual hours of work

Actual hours of work refers to a specified reference period and includes:

- hours actually worked during normal periods of work;
- time spent in addition to hours worked during normal periods of work (including overtime);
- time spent at the place of work on activities such as the preparation of the workplace, repairs and maintenance, preparation and cleaning of tools, and the preparation of receipts, time sheets and reports;
- time spent at the place of work waiting or standing by; and
- time corresponding to short rest periods.

Excluded are:

- hours paid for but not worked, such as paid annual leave, public holidays or paid sick leave;
- meal breaks; and
- time spent on travel to and from work (excluding some self-employed).

For multiple job holders actual hours worked should equal the hours worked at all jobs.

### **Aggregate monthly hours worked**

Aggregate monthly hours worked measures the total number of actual hours worked by employed persons in a calendar month. It differs from the actual hours worked estimates (and the usual hours worked estimates) since these refer only to the hours worked in the reference week.

The methodology used to produce aggregate monthly hours worked means that these are synthetic estimates. Seasonally adjusted and trend estimates of aggregate monthly hours worked are available for the period July 1978 onwards.

Further information on the methodology used to produce the aggregate monthly hours worked estimates is available on the ABS website in **Information Paper: Expansion of Hours Worked Estimates from the Labour Force Survey** (cat. no. 6290.0.55.001).

Actual and usual hours worked cannot be aggregated across time to produce either quarterly or annual estimates as they relate to only a single week in the month. In contrast, aggregate monthly hours worked estimates are a true monthly measure, and may be aggregated across time to produce both quarterly and annual estimates.

### **Attending full time education**

Persons aged 15-24 years enrolled at secondary or high school or enrolled as a full time student at a Technical and Further Education (TAFE) college, university, or other educational institution in the reference week.

### **Attending school**

Persons aged 15-19 years enrolled at secondary or high school in the reference week.

### **Attending tertiary educational institution full time**

Persons aged 15-24 years enrolled full time at a TAFE college, university, or other educational institution in the reference week, except those persons aged 15-19 years who were still attending school.

### **Civilian population aged 15 years and over**

All usual residents of Australia aged 15 years and over except members of the permanent defence forces, certain diplomatic personnel of overseas governments customarily excluded from census and estimated population counts, overseas residents in Australia, and members of non-Australian defence forces (and their dependants) stationed in Australia.

### **Composite Estimation**

The estimation methodology used in the Labour Force Survey. Composite Estimation uses sample responses from nearby months as well as from the reference month to derive estimates for the reference month. This approach achieves gains in efficiency by exploiting the high similarity between the responses provided by the same respondent in previous months. For details see **Information Paper: Forthcoming Changes to Labour Force Statistics, 2007** (cat. no. 6292.0).

## **Employed**

All persons aged 15 years and over who, during the reference week:

- worked for one hour or more for pay, profit, commission or payment in kind in a job or business, or on a farm (comprising employees, employers and own account workers); or
- worked for one hour or more without pay in a family business or on a farm (i.e. contributing family workers); or
- were employees who had a job but were not at work and were:
  - away from work for fewer than four weeks up to the end of the reference week; or
  - away from work for more than four weeks up to the end of the reference week and received pay for some or all of the four week period to the end of the reference week; or
  - away from work as a standard work or shift arrangement; or
  - on strike or locked out; or
  - on workers' compensation and expected to return to their job; or
- were employers or own account workers, who had a job, business or farm, but were not at work.

## **Employment to population ratio**

For any group, the number of employed persons expressed as a percentage of the civilian population in the same group.

## **Estimated resident population (ERP)**

Estimated resident population (ERP), is Australia's official measure of the population of Australia and is based on the concept of usual residence. It refers to all people, regardless of nationality, citizenship or legal status, who usually live in Australia, with the exception of foreign diplomatic personnel and their families. It includes usual residents who are overseas for fewer than 12 months. It excludes overseas visitors who are in Australia for fewer than 12 months. **Refer to Australian Demographic Statistics** (cat. no. 3101.0).

## **Flow estimates**

Flow estimates are a measure of activity over a given period. For example, aggregate monthly hours worked is a measure of the total number of hours worked in a calendar month.

## **Full time workers**

Employed persons who usually worked 35 hours or more a week (in all jobs) and those who, although usually working fewer than 35 hours a week, worked 35 hours or more during the reference week.



## **Gross flows**

The matching of respondents who report in consecutive months enables analysis of the transition of individuals between the different labour force status classifications, referred to as the matched sample. The transition counts between the different labour force status classifications from one point in time to the next are commonly referred to as gross flows.

The figures presented in gross flows are presented in original terms only and do not align with published labour force estimates. The gross flows figures are derived from the matched sample between consecutive months, which after taking account of the sample rotation and varying non-response in each month is approximately 80 percent of the sample.

Caution should be exercised when analysing these gross flows data due to:

- the figures presented sum to approximately 80 percent of the population values as the gross flows data are based on the matched sample only;
- there is no adjustment applied to account for changes due to seasonal patterns (referred to commonly as seasonal adjustment); and
- the estimates of relative sizes of each transition class are subject to bias due to the matched sample being a non-representative sample.

## **Labour force**

For any group, persons who were employed or unemployed, as defined.

### **Labour force status**

A classification of the civilian population aged 15 years and over into employed, unemployed or not in the labour force, as defined. The definitions conform closely to the international standard definitions adopted by the International Conferences of Labour Statisticians.

### **Labour force underutilisation rate**

The sum of the number of persons unemployed and the number of persons in underemployment, expressed as a proportion of the labour force.

### **Long-term unemployed**

The number of persons unemployed for 52 weeks or over.

### **Long-term unemployment ratio**

The number of long-term unemployed persons, expressed as a percentage of the total unemployed population.

## **Market sector**

The market sector is an industry grouping comprising the following industries: Agriculture, forestry and fishing; Mining; Manufacturing; Electricity, gas, water and waste services; Construction; Wholesale trade; Retail trade; Accommodation and food services; Transport, postal and warehousing; Information media and telecommunications; Finance and insurance services; Rental, hiring and real estate services; Professional, scientific and technical services; Administrative and support services; Arts and recreation services; and Other

services. Refer to **Australian National Accounts: Concepts, Sources and Methods** (cat. no. 5216.0).

### **Non-market Sector**

The non-market sector is an industry grouping comprising the following industries: Education and training; Public administration & safety; and Health care and social assistance. Refer to **Australian National Accounts: Concepts, Sources and Methods** (cat. no. 5216.0).

### **Not in labour force**

Persons who were not in the categories employed or unemployed, as defined.

### **Participation rate**

For any group, the labour force expressed as a percentage of the civilian population aged 15 years and over in the same group.

### **Part time workers**

Employed persons who usually worked fewer than 35 hours a week (in all jobs) and either did so during the reference week or were not at work during the reference week.

### **Response rate**

The number of fully responding dwellings expressed as a percentage of the total number of dwellings excluding sample loss. Examples of sample loss include: dwellings where all persons are out of scope and/or coverage; vacant dwellings; dwellings under construction; dwellings converted to non-dwellings; derelict dwellings; and demolished dwellings.

### **Seasonally adjusted series**

A time series of estimates with the estimated effects of normal seasonal variation removed. See Explanatory Notes 28 to 32 for more detail.

### **Stock estimates**

Stock estimates are a measure of certain attributes at a point in time and can be thought of as **stocktakes**. For example, the total number of employed persons is an account of the number of people who were considered employed in the Labour Force Survey reference week.

### **Trend series**

A smoothed seasonally adjusted series of estimates. See Explanatory Notes 33 to 36 for more detail.

### **Underemployment rate**

The number of underemployed workers expressed as a percentage of the labour force.

### **Underemployed workers**

Employed persons aged 15 years and over who want, and are available for, more hours of

work than they currently have. They comprise:

- persons employed part time who want to work more hours and are available to start work with more hours, either in the reference week or in the four weeks subsequent to the survey; or
- persons employed full time who worked part time hours in the reference week for economic reasons (such as being stood down or insufficient work being available). It is assumed that these people wanted to work full time in the reference week and would have been available to do so.

## **Unemployed**

Persons aged 15 years and over who were not employed during the reference week, and:

- had actively looked for full time or part time work at any time in the four weeks up to the end of the reference week and were available for work in the reference week; or
- were waiting to start a new job within four weeks from the end of the reference week and could have started in the reference week if the job had been available then.

### **Unemployed looking for full time work**

Unemployed persons who:

- actively looked for full time work; or
- were waiting to start a new full time job.

### **Unemployed looking for part time work**

Unemployed persons who:

- actively looked for part time work only; or
- were waiting to start a new part time job.

## **Unemployment rate**

For any group, the number of unemployed persons expressed as a percentage of the labour force in the same group.

## **Unemployment to population ratio**

For any group, the number of unemployed persons expressed as a percentage of the civilian population in the same group.

## **Usual hours of work**

Usual hours of work refers to a typical period rather than to a specified reference period. The concept of usual hours applies both to persons at work and to persons temporarily absent from work, and is defined as the hours worked during a typical week or day. Actual hours worked (for a specific reference period) may differ from usual hours worked due to illness, vacation, strike, overtime work, a change of job, or similar reasons.

# Quality Declaration - Summary

## QUALITY DECLARATION - SUMMARY

### INSTITUTIONAL ENVIRONMENT

Labour Force statistics are compiled from the Labour Force Survey which is conducted each month throughout Australia as part of the Australian Bureau of Statistics (ABS) household survey program. For information on the institutional environment of the ABS, including the legislative obligations of the ABS, financing and governance arrangements, and mechanisms for scrutiny of ABS operations, please see ABS Institutional Environment.

### RELEVANCE

The Labour Force Survey provides monthly information about the labour market activity of Australia's resident civilian population aged 15 years and over. The Labour Force Survey is designed to primarily provide estimates of employment and unemployment for the whole of Australia and, secondarily, for each state and territory.

### TIMELINESS

The Labour Force Survey enumeration begins on the Sunday between the 5th and 11th of the month, except for the Christmas and New Year holiday period. In December enumerations starts between the 3rd and 9th (4 weeks after November enumeration begins). In January enumeration starts between the 7th and 13th (5 weeks after December enumeration begins).

Key estimates from the Labour Force Survey are published in two stages. The first, *Labour Force, Australia* (cat. no. 6202.0), is released 32 days after the commencement of enumeration for the month, with the exception of estimates for December which are published 39 days after the commencement of enumeration.

The second stage includes detailed data that were not part of the first stage and are published in *Labour Force, Australia, Detailed - Electronic Delivery* (cat. no. 6291.0.55.001) and *Labour Force, Australia, Detailed, Quarterly* (cat. no. 6291.0.55.003). The second stage is released 7 days after the first stage.

### ACCURACY

The Labour Force Survey is based on a sample of private dwellings (approximately 29,000 houses, flats etc) and non-private dwellings, such as hotels and motels. The sample covers about 0.33% of the Australian civilian population aged 15 years or over. The Labour Force Survey is designed primarily to provide estimates of key labour force statistics for the whole of Australia and, secondarily, for each state and territory.

Two types of error are possible in an estimate based on a sample survey: non-sampling error and sampling error.

Non-sampling error arises from inaccuracies in collecting, recording and processing the data. Every effort is made to minimise reporting error by the careful design of questionnaires, intensive training and supervision of interviewers, and efficient data processing procedures. Non-sampling error also arises because information cannot be obtained from all persons selected in the survey. The Labour Force Survey receives a high level of cooperation, with an average response rate for the last year being 96%.

Sampling error occurs because a sample, rather than the entire population, is surveyed. One measure of the likely difference resulting from not including all dwellings in the survey is given by the standard error. There are about two chances in three that a sample estimate will differ by less than one standard error from the figure that would have been obtained if all dwellings had been included in the survey, and about nineteen chances in twenty that the difference will be less than two standard errors.

Standard errors of key estimates and movements since the previous month are available in *Labour Force, Australia* (cat. no. 6202.0). The standard error of other estimates and movements may be calculated by using the spreadsheet contained in *Labour Force Survey Standard Errors, Data Cube* (cat. no. 6298.0.55.001).

## COHERENCE

The ABS has been conducting the Labour Force Survey each month since February 1978. While seeking to provide a high degree of consistency and comparability over time by minimising changes to the survey, sound survey practice requires careful and continuing maintenance and development to maintain the integrity of the data and the efficiency of the collection.

The changes which have been made to the Labour Force Survey have included changes in sampling methods, estimation methods, concepts, data item definitions, classifications, and time series analysis techniques. In introducing these changes the ABS has generally revised previous estimates to ensure consistency and coherence with current estimates. For a full list of changes made to the Labour Force Survey see Chapter 20 in *Labour Statistics: Concepts, Sources and Methods* (cat. no. 6102.0.55.001).

## INTERPRETABILITY

The key estimates from the Labour Force Survey are available as original, seasonally adjusted and trend series. Seasonal adjustment is a means of removing the effects of normal seasonal variation from the series so other influences on the series can be more clearly recognised. Seasonal adjustment does not aim to remove the irregular influences which may be present and therefore month-to-month movements may not be reliable indicators of underlying behaviour. To assist in interpreting the underlying behaviour, the ABS produces the trend series by smoothing the seasonally adjusted series to reduce the impact of the irregular component. For further information, see *A Guide to Interpreting Time Series - Monitoring Trends* (cat. no. 1349.0).

Further information on the terminology and other technical aspects associated with statistics from the Labour Force Survey can be found in the publication *Labour Force, Australia* (cat. no. 6202.0), which contains detailed Explanatory Notes, Standard Error information and a Glossary.

# ACCESSIBILITY

Please see the Related Information tab for the list of products that are available from this collection.

## What If

### WHAT IF...? REVISIONS TO TREND ESTIMATES

#### EFFECT OF NEW SEASONALLY ADJUSTED ESTIMATES ON TREND ESTIMATES

##### TREND REVISIONS

Each time new seasonally adjusted estimates become available, trend estimates are revised. This revision is a combined result of the concurrent seasonal adjustment process and the application of surrogates of the Henderson average to the seasonally adjusted series (see paragraphs 28 to 36 of the Explanatory Notes).

The examples in the tables below show two illustrative scenarios and the consequent revisions to previous trend estimates of employment and the unemployment rate. The revisions in the scenarios are due to the use of surrogates of the Henderson average, as the impact of revision of seasonally adjusted estimates can not be estimated in advance.

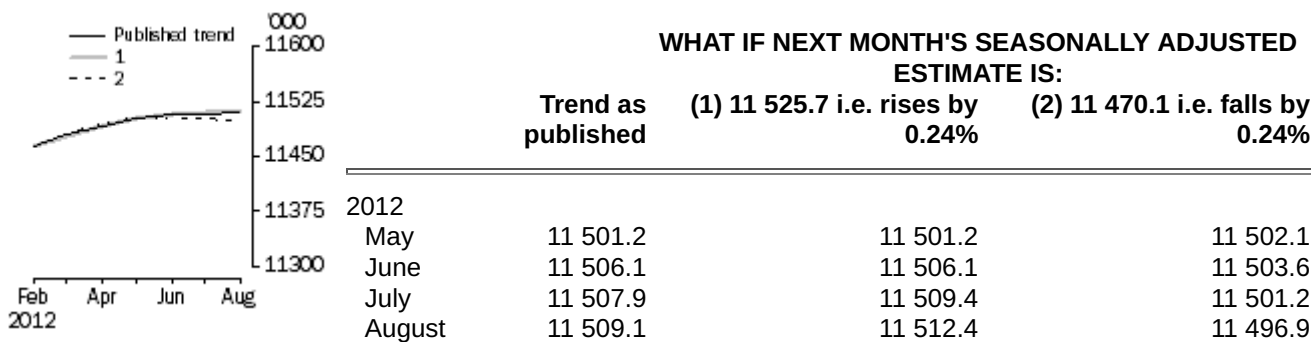
- 1

The September seasonally adjusted estimate is **higher** than the August estimate by:  
0.24% for employment  
2.10% for the unemployment rate
- 2

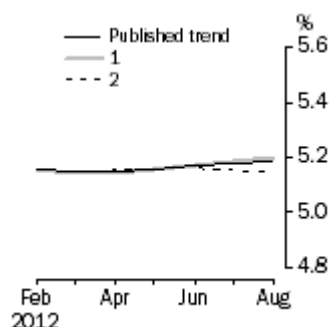
The September seasonally adjusted estimate is **lower** than the August estimate by:  
0.24% for employment  
2.10% for the unemployment rate

The percentage changes of 0.24% and 2.10% represent the average absolute monthly percentage changes in employment and the unemployment rate respectively. Estimates in the graphs have been calculated using unrounded estimates, and may be different from, but more accurate than, rounded estimates depicted in the corresponding table.

##### Employment



## Unemployment Rate



### WHAT IF NEXT MONTH'S SEASONALLY ADJUSTED ESTIMATE IS:

**Trend as published**      (1) 5.2 i.e. rises by 2.10%      (2) 5.0 i.e. falls by 2.10%

	Trend as published	(1) 5.2 i.e. rises by 2.10%	(2) 5.0 i.e. falls by 2.10%
2012			
May	5.2	5.2	5.2
June	5.2	5.2	5.2
July	5.2	5.2	5.2
August	5.2	5.2	5.1

## Standard Errors

### STANDARD ERRORS

#### STANDARD ERRORS

The estimates in this publication are based on information gained from the occupants of a sample survey of dwellings. Because the entire population is not surveyed, the published estimates are subject to sampling error. The most common way of quantifying such sampling error is to calculate the standard error for the published estimate or statistic. For more information, see paragraphs 25 to 27 of the Explanatory Notes.

#### LEVEL ESTIMATES

To illustrate, let us say the published level estimate for employed persons aged 15-19 years is 700,000 and the associated standard error is 9,200. The standard error is then used to interpret the level estimate of 700,000. For instance, the standard error of 9,200 indicates that:

- There are approximately two chances in three that the real value falls within the range 690,800 to 709,200 ( $700,000 \pm 9,200$ )
- There are approximately nineteen chances in twenty that the real value falls within the range 681,600 to 718,400 ( $700,000 \pm 18,400$ ).

The real value in this case is the result we would obtain if we could enumerate the total population.

The following table shows the standard errors for this month's level estimates.

<hr/>												
Aged 15 years and over												
Employed												
Full time	'000	20.5	20.8	15.5	6.7	10.0	2.7	4.1	2.4	27.1	19.3	32.7
Part time	'000	14.6	13.4	10.0	5.0	6.9	2.1	1.3	1.6	11.0	17.8	21.7
Total	'000	22.6	25.5	17.5	7.8	10.9	3.2	4.8	2.5	29.4	27.2	37.1
Unemployed												
Looking for f/t work	'000	7.9	7.4	6.4	2.9	3.2	1.3	0.6	0.8	10.1	7.9	13.0
Looking for p/t work	'000	4.3	4.3	3.5	1.5	2.2	0.7	0.3	0.6	4.4	5.9	7.4
Total	'000	9.1	8.6	7.1	3.2	3.9	1.5	0.7	1.0	11.1	9.9	15.0
Labour force	'000	22.9	26.2	17.9	7.9	11.0	3.2	4.9	2.5	30.1	27.8	37.7
Not in labour force	'000	21.5	24.0	15.7	7.2	10.7	3.2	3.4	2.3	25.3	29.6	34.8
Unemployment rate												
Looking for f/t work	pts	0.3	0.3	0.4	0.5	0.3	0.8	0.5	0.5	0.2	0.3	0.2
Looking for p/t work	pts	0.4	0.4	0.5	0.5	0.6	0.8	1.2	1.0	0.4	0.2	0.2
Total	pts	0.2	0.3	0.3	0.4	0.3	0.6	0.5	0.5	0.2	0.2	0.1
Participation rate	pts	0.4	0.6	0.5	0.6	0.6	0.8	2.8	0.8	0.3	0.3	0.2
<hr/>												
Aged 15-19 years												
Employed												
Full time	'000	3.1	2.5	2.5	1.0	1.7	0.5	0.3	0.4	4.3	3.4	5.0
Part time	'000	4.6	3.9	3.6	1.7	2.2	0.7	0.4	0.6	5.2	5.9	7.6
Total	'000	5.3	4.4	4.4	1.8	2.7	0.8	0.5	0.7	6.4	6.5	8.9
Unemployed												
Looking for f/t work	'000	2.7	2.2	2.3	1.0	1.3	0.5	0.3	0.4	3.6	2.7	4.5
Looking for p/t work	'000	2.4	2.6	2.5	0.9	1.3	0.4	0.1	0.4	3.3	3.3	4.7
Total	'000	3.6	3.5	3.5	1.4	1.8	0.7	0.3	0.5	4.9	4.3	6.6
Labour force	'000	5.7	4.9	4.8	2.0	3.0	0.9	0.6	0.8	6.9	6.9	9.6
Not in labour force	'000	8.7	7.0	5.5	2.6	3.8	1.0	0.8	0.8	8.9	8.4	12.6
Unemployment rate												
Looking for f/t work	pts	3.8	4.4	3.5	6.6	3.5	7.1	6.6	10.6	2.2	3.0	1.8
Looking for p/t work	pts	1.5	2.0	2.0	2.2	2.3	3.4	2.2	3.3	1.4	1.1	0.9
Total	pts	1.6	2.0	1.8	2.4	2.0	3.3	3.5	3.6	1.2	1.1	0.8
Participation rate	pts	1.2	1.4	1.5	1.9	1.9	2.6	3.6	3.3	0.9	1.0	0.6
Unemployment to population ratio - looking for f/t work	pts	0.6	0.6	0.7	0.9	0.8	1.4	1.8	1.7	0.5	0.4	0.3
<hr/>												

## MOVEMENT ESTIMATES

The following example illustrates how to use the standard error to interpret a movement estimate. Let us say that one month the published level estimate for females employed part-time in Australia is 1,890,000; the next month the published level estimate is 1,900,000 and the associated standard error for the movement estimate is 11,900. The standard error is then used to interpret the published movement estimate of 10,000. For instance, the standard error of 11,900 indicates that:

- There are approximately two chances in three that the real movement between the two months falls within the range - 1,900 to 21,900 (10,000 + or - 11,900)
- There are approximately nineteen chances in twenty that the real movement falls within the range - 13,800 to 33,800 (10,000 + or - 23,800).

The following table shows the standard errors for this month's movement estimates.

											AUSTRALIA	
											Males	Females
											Persons	
<hr/>												
Aged 15 years and over												
Employed												
Full time	'000	13.9	11.2	10.2	3.8	6.5	1.6	1.3	1.7	17.7	12.9	22.4



	Part time	'000	9.0	7.6	6.1	2.8	4.0	1.3	0.6	1.0	7.9	11.9	14.2
	Total	'000	16.7	13.7	13.5	5.5	8.2	2.1	1.4	1.9	19.5	17.8	27.4
Unemployed													
	Looking for f/t work	'000	8.4	7.2	7.0	2.8	3.3	1.2	0.5	0.9	10.4	8.1	13.3
	Looking for p/t work	'000	4.5	4.4	4.2	1.4	2.3	0.7	0.3	0.7	4.6	6.3	7.8
	Total	'000	9.7	8.4	8.1	3.1	4.0	1.4	0.6	1.1	11.4	10.2	15.4
Labour force													
	Not in labour force	'000	17.2	14.1	14.3	5.8	8.5	2.2	1.5	2.0	20.0	18.2	28.2
	Unemployment rate	'000	16.2	13.1	12.6	5.3	7.4	2.1	1.2	1.9	15.7	19.4	25.9
	Looking for f/t work	pts	0.3	0.4	0.4	0.5	0.3	0.8	0.6	0.5	0.2	0.3	0.2
	Looking for p/t work	pts	0.4	0.5	0.6	0.5	0.6	0.8	1.3	1.1	0.4	0.2	0.2
	Total	pts	0.3	0.3	0.3	0.4	0.3	0.6	0.6	0.5	0.2	0.2	0.1
Participation rate													
Aged 15-19 years													
Employed													
	Full time	'000	2.6	1.9	2.1	0.8	1.4	0.4	0.3	0.3	3.4	2.9	4.0
	Part time	'000	3.6	3.0	2.8	1.3	1.8	0.5	0.3	0.5	4.1	4.6	5.7
	Total	'000	4.2	3.3	3.3	1.4	2.1	0.6	0.4	0.6	4.9	5.0	6.6
Unemployed													
	Looking for f/t work	'000	2.7	2.3	2.6	1.0	1.3	0.5	0.3	0.4	3.8	2.9	4.7
	Looking for p/t work	'000	2.6	2.9	2.7	0.9	1.4	0.5	0.1	0.4	3.4	3.6	4.9
	Total	'000	3.9	3.7	3.7	1.3	2.0	0.6	0.3	0.6	5.1	4.6	6.8
Labour force													
	Not in labour force	'000	4.5	3.6	3.5	1.5	2.3	0.6	0.4	0.6	5.2	5.3	7.1
	Unemployment rate	'000	5.4	4.4	3.7	1.7	2.5	0.7	0.5	0.6	6.2	6.0	8.2
	Looking for f/t work	pts	3.9	4.7	3.7	6.8	3.9	7.2	6.9	10.4	2.3	3.2	1.9
	Looking for p/t work	pts	1.6	2.2	2.0	2.2	2.2	3.8	2.7	3.6	1.4	1.2	0.9
	Total	pts	1.7	2.1	1.9	2.5	2.0	3.5	3.7	3.6	1.3	1.1	0.9
Participation rate													
Unemployment to population ratio -													
looking for f/t work													
		pts	0.6	0.6	0.8	0.9	0.8	1.4	1.6	1.8	0.5	0.4	0.3

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